

JANUARY 2006

2005 ANNUAL REPORT for the WEST LAFAYETTE ENGINEERING DEPARTMENT

The following is a brief summary of the projects, developments, and day to day operations of the West Lafayette City Engineer's Office in 2005.

Road Projects:

- Lindberg Road:
 - INDOT Legal council informed the City that a temporary overlay could not be installed without going through the original construction contract with Atlas Excavating.
 - Several meetings were held through the spring and summer with INDOT to discuss the project history, project status, condition of the existing road, progression of the settlement, how to implement a short-term fix and eventually a long-term fix.
 - In July, INDOT formally notified Atlas and their bonding company that the contractor was in default on the contract and that INDOT was going to begin the process of fixing the road using the performance bond.
 - Several meetings were held in the late summer through fall with INDOT and Atlas Excavating to discuss any willingness to install a short-term fix, outstanding claims by the contractor, INDOT's position that Atlas is in default on the contract, and how to implement and pay for a short-term fix.
 - A short-term fix was negotiated between INDOT, Atlas, and the City in late October and the details were ironed out through Thanksgiving. Unseasonably cold weather delayed implementing the fix until late December, with paving and striping completed on December 23rd. The fix will hopefully last through this winter and into next spring, possibly longer. HNTB was hired by the City to monitor installation of the short term fix and record all work on a force account basis.
 - Material testing and additional survey work are on-going to help determine how much, if any, additional settlement takes place, and who is at fault for the failure of the original installation and the piling fix. Based on the results of the testing and analysis, the responsible parties will be required to develop a long-term solution and pay for its construction.

- Tapawingo South:
 - Design plans were finalized in the spring, and right-way acquisition was completed in the summer. One parcel was purchased from Mr. & Mrs. John Shen and a drainage easement was obtained from the KB&S railroad.
 - Bids for the project were opened by INDOT on October 19th. The successful low bidder was Crider & Crider from Bloomington, Indiana.
 - HNTB was selected as the consultant for construction inspection.
 - A pre-construction meeting was held at INDOT Crawfordsville on December 15th.
 - The project is still waiting on a notice to proceed to be issued to the contractor by INDOT. Once issued, the contractor will begin construction on the dynamic compaction work to prepare the sub-grade for the new road.
 - The completion date for the contract is set for October 15, 2006.

- Purdue Transportation Plan:
 - Plan and phasing details were finalized in early 2005 as a result of several joint meetings between the City, Purdue, Area Plan, and the County.
 - The Master Transportation Plan was formally adopted by the Area Plan and its member jurisdictions in February and March.
 - The plan gained support from the FHWA by receiving \$5.6 million in earmarked funds in the new transportation bill passed by Congress and signed by the President.
 - In December, eleven engineering firms submitted Statements of Qualification for Phase 1A of the entire project. Three firms were short-listed and will be interviewed in early January for the design contract. Design development and land acquisition will take place in 2006 and 2007 respectively, with construction slated to start in 2008.
 - Phases include:
 - 1A Williams – Harrison – Grant
 - 1B Chauncey – Northwestern – Grant – State
 - 2 Stadium
 - 3A Harrison – Airport – State
 - 3B State – McCormick – Stadium
 - 4 Northwestern

- Salisbury Street Safety Improvements:
 - The project scope was further refined in the spring and early summer with discussions at the WL Bike & Ped Committee and the WL Traffic Commission. The project will include 5'-0" sidewalks, 2'-0" grass strip, 5'-0" bike lanes, 10'-0" travel lanes, and a 11'-0" center turn lane and median area. New retaining walls will be constructed and minor adjustments will be made at many of the intersecting streets to improve sight distances and alignments. Areas with retaining walls will have 6'-0" sidewalks and no grass strip.
 - Accident data and speed counts have been compiled for the project limits. While accidents are not numerous, there have been several in the last 5 years. Most have been re-end accidents and/or weather related. Speed counts revealed a serious speeding problem. The 85th percentile speed is between 38 and 40 mph for the

project length. The posted speed is 30mph with a 20mph school zone at Happy Hollow Elementary. Traffic calming measures are warranted.

- Project design development is approximately 85% complete.
 - Residents have been contacted and informed of the project. Additional property owner contact will be made in January 2006 with drawings of the proposed work and information on construction.
 - Met with WLSC officials and attended school board meeting to present plan in December.
 - Preparing additional information for the board, and hope to gain their support to realign Kingston intersection with Leslie. Will need both cost sharing and land donation in order to upgrade Kingston and make the intersection safer for children and the crossing guard.
 - TJ Gall and Associates was chosen as the project coordination consultant for the construction and utility relocation phases of this project.
 - Construction is scheduled to begin in April 2006 with a bid opening in early March.
 - Will need to present project and request funding appropriations at the City Council meetings in February and March.
- Cumberland Ave. Reconstruction:
 - Soil reports and pavement cores are complete.
 - Consultant selection is underway with short-listed firms to be chosen in early January. A total of 7 firms submitted qualifications and three will be selected for interviews.
 - The scope of the project has not been completely finalized, however we hope to be able to improve drainage, reconstruct or rehabilitate the pavement, improve travel lane and parking lane layouts, improve pedestrian access and safety, provide for bicyclists, and coordinate a gateway to the Purdue Research Park.
 - Project will run from US52 to Soldier's Home and may be divided into as many as three phases.
 - Kalberer Road:
 - Work re-started in spring, and reconstruction of the pavement was finished in early July. Ribbon cutting was July 12, 2005.
 - Final construction records have been completed and submitted.
 - South Salisbury Street:
 - Construction began in June and work was completed in time for the start of Fall semester at Purdue.
 - The street curbs and sidewalks were replaced with new and the street surface was overlaid with a new layer of asphalt. Some additional parallel parking spaces were added as a result of the new street layout.
 - Brown Street:
 - Engineering staff has been looking into traffic calming and speed reduction alternatives for the entire length of Brown St. from State St. to Tapawingo Dr.

- Speed counts have shown that the 85th percentile speed is regularly 5 to 10 mph over the posted speed limit.
- Minor changes have been made such as removing parking near Howard Ave., and installing a three way stop at Tapawingo Dr.
- New parking areas, drives, and sidewalks were installed on the East end of Brown St. in front of Nick's, JL Records and the Tapawingo Park.
- 2005 Street Resurfacing:
 - Work was completed in August on the 20 streets, or segments of streets, that were resurfaced.
 - Approximately \$350,000 of MVH funds were used.
 - Smiley Street, between Vine St. and Salisbury St. was reconstructed as a 10'-0" street with a 1'-0" stone shoulder on each side.
- 2006 Street Resurfacing:
 - Engineering staff is currently updating the three to five year planning window for street resurfacing.
 - The list of 2006 streets is being compiled and cost estimates are being prepared.

Sidewalk Projects:

- Sagamore West:
 - Phase II of the sidewalk plan was completed in fall 2005.
 - Work included new sidewalks along Frontage Road from Covington to Nighthawk.
 - Permits have been submitted to INDOT for the installation of landscaping and light & banner poles along the Parkway.
- Sycamore Lane:
 - The city continues to work with Hawkins Environmental (HE-BFS) to re-submit the Hazard Elimination Safety grant paperwork. The initial submittal was not successful in obtaining grant funding. We are resubmitting with some clarifications and additional information based on feedback we received from the FHWA and INDOT. Our hope that this information will allow the project (or a portion of the project) to receive funding. An answer should come in January or February 2006.
 - Rumble strips were installed at several locations along Sycamore as a temporary means to calm traffic. Recent speed counts show that the rumble strips were initially effective in reducing the 85th percentile speed by ~ 3mph to 5mph.
- Lincoln Street Curb & Sidewalk Project:
 - New curbs, sidewalks, and driveway approaches were installed on Lincoln Street from Robinson St. to Rose St. CBDG funds were used to pay for this project.
 - Work was completed in October 2005.

- Indian Trail Curb Ramp Project:
 - City staff is currently preparing plans for a curb ramp project at the intersecting streets along Indian Trail. The project would install ADA accessible ramps at Seneca, Blackhawk, Mohawk, Huron, Seminole, Delaware, Tecumseh, Pawnee, & Navajo. CBDG funds will also be used to pay for this project.
 - Other locations of ADA sidewalk deficiencies along Indian Trail will be incorporated into the project as possible.
 - The project is scheduled for Summer 2006.

Other Projects:

- Annexation:
 - The Engineer's Office aided in the preparation of information and documents for a large annexation area to the North of the city. The annex area would include the remaining areas of the Purdue Research Park, Prophet's Ridge Subdivision, and Lauren Lakes Subdivision.
 - The formal annexation process began in November 2005 and will continue well into 2006.
- Village Parking Study:
 - Woolpert, LLP was hired to study parking in the Village area and consider the many developments and changes that have taken place since the original parking study was completed in 1994.
 - A parking committee was formed to help direct and provide input for the study. Members include several village property owners, WL Library, local residents, and Purdue students & staff.
 - Engineering staff has been working closely with the consultant, and Purdue Stat Com to complete several surveys of local residents, village merchants, Purdue faculty, staff & students. Surveys were also prepared and sent to other cities with major college campuses.
 - Resident and merchant survey responses have been received and compiled.
 - Woolpert is currently preparing a draft report to share with the parking committee. The next committee meeting will be in February 2006, with plans to present the final report at the March 2006 City Council meeting.
- City Hall Building:
 - Construction started November 30th on the renovation of the lower level. Work should be completed by March 2006.
 - A quote from Crown Distributing has been accepted for the replacement of the carpeting throughout City Hall.
 - The City hired INTAC Management to complete an audit of the city hall building. The report is being used to coordinate and improve facility management and preventative maintenance programs at city hall.
 - The City entered into agreement with INTAC for facilities management for the City Hall building. The agreement also includes an evaluation of the police

station and both fire stations. This information will be used to combine the preventative maintenance contracts for those city facilities.

- The City accepted a quote from Mulhaupt's to install a card reader entry system for City Hall. The system will improve the security of the building and also simplify the coordination of building access.
- City Standards and Policy Manual:
 - The first version of the City Standards were approved by the Board of Works on July 5th, 2005.
 - This information is posted on the Engineering Department's page on the City web site.
 - A revised set of standards is currently being completed, and will be presented to the Board of Works in January 2006 for approval.

Planned Developments:

- Completed in 2005:
 - Hilltop
 - McCormick Place
 - Chauncey Townhouses
 - State Street Towers
 - Villas on Pierce Street
 - Tower of Ivory
 - West Lafayette Public Library/Garage
 - Capp & Ginos
 - Panini's
- Continuing into 2006:
 - Chauncey Square
 - Westminster Village
 - Catherwood Gardens
 - Chipotle Mexican Grill
 - Wabash Village
 - Sycamore Pointe
 - Fairway Knolls
 - Global Holdings
 - State Street Speedway

Sewers and Drainage:

- Western Interceptor
 - Design work continues by Greeley & Hansen. Plans should be complete in early 2006 and the project could begin construction as early as summer 2006.
 - Progress was achieved on coordinating the City's sewer project with the State's US231 road project. The city met several times with INDOT officials throughout the summer and fall. We have submitted a justification for INDOT's review

based on the results of our meetings. We believe this to be the last step in gaining approval to combine a portion of the sewer project with the road project.

- Plaza Park Drain (Michaud-Sinninger Study)
 - Engineering staff is preparing plans for a ditch clearing project along this drain from Cumberland Ave. to the Michaud-Sinninger Woods.
 - Additional work on this project may include an improved outlet from the Amberleigh Village Pond and piping some of the flow around the woods.
- Cuppy-McClure Drain
 - County completed clearing project in the winter 2005. Drain appears to be working properly and adequately handles the anticipated flow.
- Sagamore Pond
 - Met with PRF and the property owner to discuss the potential for improving this highly visible corner.
 - Working on obtaining an easement from Walmart to legitimize the existing pond outlet and permit reconstruction of a new outlet. Walmart has agreed to grant the easement.
- NPDES Phase II Implementation
 - Work continues on developing and managing the new stormwater ordinance.
 - A fee schedule for new construction project, plan review and construction inspections is currently being developed.
 - The City is investigating the options for implementing a stormwater utility.

Major Building Projects:

- Completed in 2005:
 - Ed-An (Jewel-Osco)
 - Greentree Patio Homes (bond pending)
 - Walmart Expansion(bond pending)
 - Cook Biotech
 - Chao Center
 - International Fitness Center
 - Purdue Tech Center Expansion
 - Sikorski/Butler Engineering
 - Puccinni's
 - Dog n Suds
 - West Lafayette Chiropractic Clinic
 - Northwestern Shell Station
- Continuing into 2006
 - City Hall Renovation
 - International Fitness Center Expansion
 - Addition to Chiropractic Clinic

Subdivisions:

- Amberleigh Village, Ph III
- Arbor Chase, Ph. IB, II & IV
- St. Joseph's Court
- Prophet's Ridge, Ph. II
- Appleridge & The Orchard, Ph. II & III
- Wake Robin, Ph. III

Building Permits:

- Total building permits issued: 410
- Total constructed dollar value: \$33,174,022

Plan Reviews:

- Total plan reviews: 303

Inspections:

- Total inspections: 1532

Excavation Permits:

- Total permits issued: 297

Neighborhood Parking Permits Issued:

- Zone 1: 169
- Zone 2: 23

Respectfully Submitted,

David M. Buck, P.E.
City Engineer